

35C5

Beam Power Tube

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) $35 \pm 10\%$ volts ←
Current at 35 volts 0.15 amp

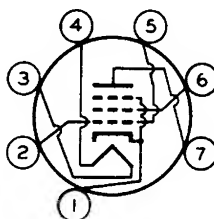
Direct Interelectrode Capacitances (Approx.):^a

Grid No.1 to plate 0.6 μf
Grid No.1 to cathode & grid No.3,
grid No.2, and heater 12 μf
Plate to cathode & grid No.3,
grid No.2, and heater 9 μf

Mechanical:

Operating Position Any
Maximum Overall Length 2-5/8"
Maximum Seated Length 2-3/8"
Length, Base Seat to Bulb Top (Excluding tip) $2" \pm 3/32"$
Diameter 0.650" to 0.750"
Dimensional Outline See *General Section*
Bulb T5-1/2
Base Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW 7CV

Pin 1 - Cathode,
Grid No.3
Pin 2 - Grid No.1
Pin 3 - Heater



Pin 4 - Heater
Pin 5 - Grid No.1
Pin 6 - Grid No.2
Pin 7 - Plate

AF POWER AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE 150 max. volts
GRID-No.2 (SCREEN-GRID) VOLTAGE 130 max. volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:
Positive-bias value 0 max. volts
GRID-No.2 INPUT 1.1 max. watts
PLATE DISSIPATION 5.2 max. watts
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with
respect to cathode 200 max. volts
Heater positive with
respect to cathode 200^b max. volts
BULB TEMPERATURE (At hottest point
on bulb surface) 250 max. °C

← Indicates a change.



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DATA 1
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Typical Operation and Characteristics:

Plate Voltage.	110	volts	
Grid-No.2 Voltage.	110	volts	—
Grid-No.1 (Control-Grid) Voltage	-7.5	volts	
Peak AF Grid-No.1 Voltage.	7.5	volts	
Zero-Signal Plate Current.	40	ma	
Max.-Signal Plate Current.	41	ma	
Zero-Signal Grid-No.2 Current.	3	ma	
Max.-Signal Grid-No.2 Current.	7	ma	
Plate Resistance (Approx.)	13000	ohms	—
Transconductance	5800	μ mhos	
Load Resistance.	2500	ohms	
Total Harmonic Distortion.	10	%	
Max.-Signal Power Output	1.5	watts	

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.1 max.	megohm	—
For cathode-bias operation	0.5 max.	megohm	

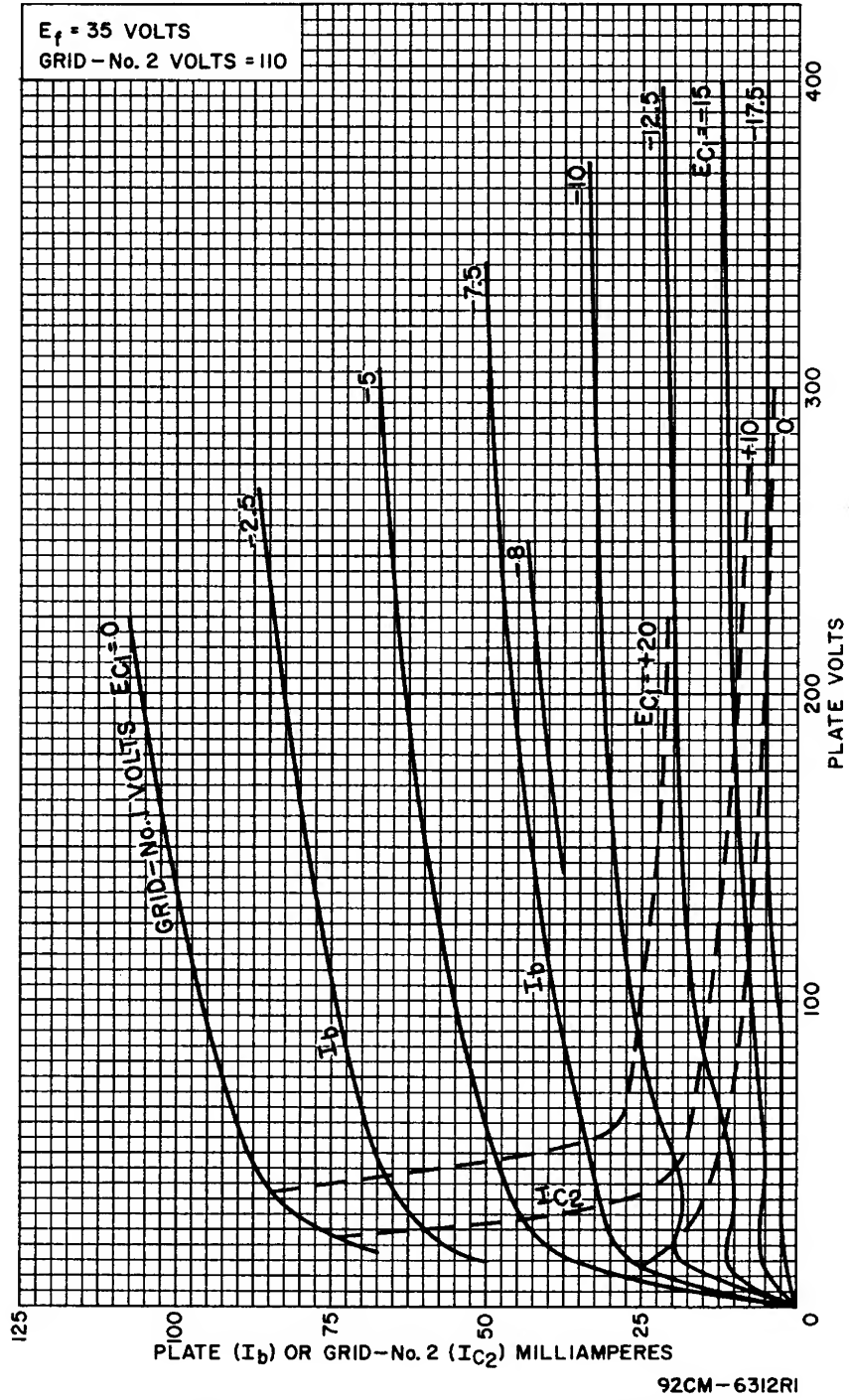
^a Without external shield.

^b The dc component must not exceed 100 volts.



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AVERAGE CHARACTERISTICS

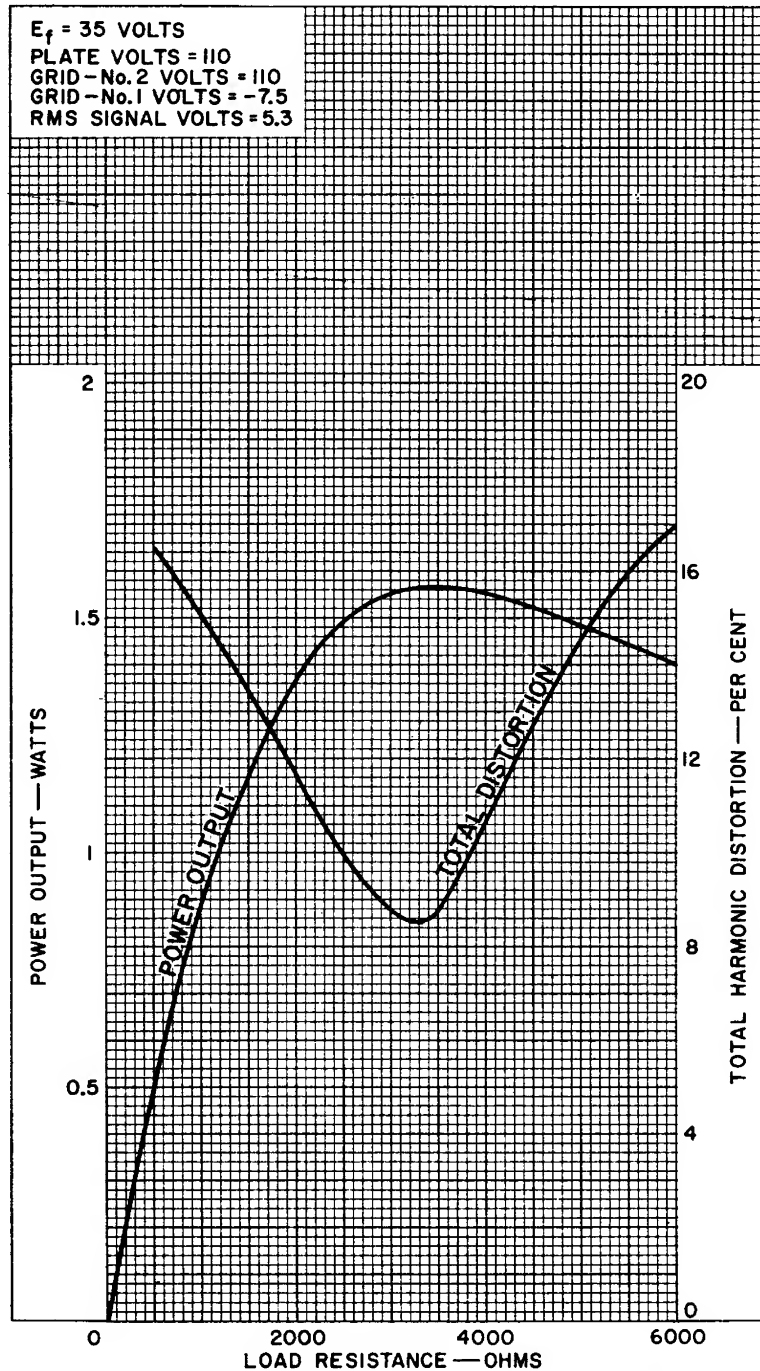


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DATA 2
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OPERATION CHARACTERISTICS



92CM-6794

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